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**Chapter 3: The SAVER Interface**

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**Overview**

**Introduction** This section describes the basics of the SAVER interface. Common SAVER operations are described in chapter 5.

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**Primary Goal** The primary goal of the SAVER interface is to give the average user a quicker means of accessing and using maps and data in ArcView. Most users will need to know a few things about ArcView, but they will not need to learn how to deal with ArcView query structures or the steps necessary to deal with complex operations.

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**The Data** The crash data is gathered from the investigating officer's Report of Motor Vehicle Accident filed by Iowa law enforcement agencies. The enforcement data is gathered using TraCS. Background data is from the Iowa DOT base maps and other sources.

**NOTE:** Due to the nature of the information gathering, reporting, and transcription, some of the data is incomplete or inaccurate.

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**ArcView** ArcView® is software sold by ESRI for high-end geographic information system users. You must have this software package in order to use SAVER.

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**The Project File** One project file is included with every release of SAVER, named in the manner described in chapter 1.

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**In This Chapter** The following topics are discussed within this chapter of the AV-SAVER User's Guide:

<b>Topic</b>	<b>See Page...</b>
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## Starting SAVER

**Introduction** Starting SAVER can be broken down into three stages, as shown below:

Stage	Description
1	Starting ArcView
2	Opening the project file
3	Starting AV-SAVER

**Stage 1:  
Starting  
ArcView**

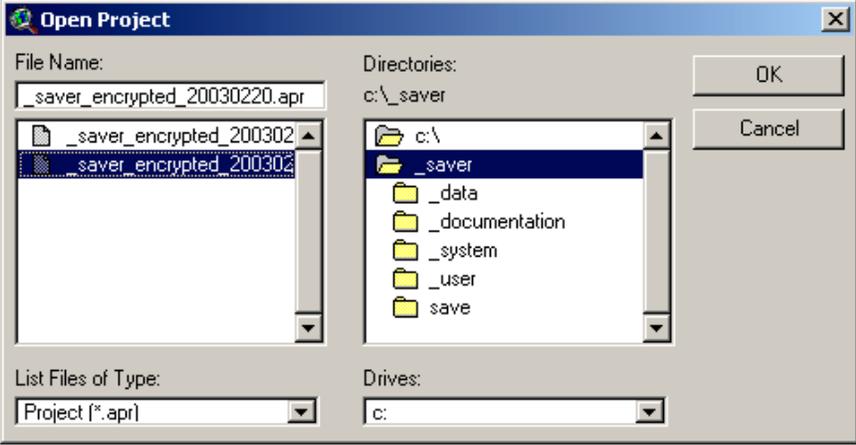
Start either ArcView GIS 3.2 or 3.3. This may require you to click on the ArcView GIS icon on your desktop, use the shortcut on your desktop that you created in chapter 2, or use the Windows Start button. Consult the following table:

If you use...	Then...												
the Windows Start button,	<p>you will need to perform the following steps:</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Click <b>Start</b>.</td> </tr> <tr> <td>2</td> <td>Select <b>Programs</b>.</td> </tr> <tr> <td>3</td> <td>Select <b>ESRI</b>. The ArcView GIS 3.2 (or 3.3) menu option appears.</td> </tr> <tr> <td>4</td> <td>Select <b>ArcView GIS 3.2</b> (or <b>3.3</b>). The ArcView menu folder opens.</td> </tr> <tr> <td>5</td> <td>Select <b>ArcView GIS 3.2</b> (or <b>3.3</b>). This opens the ArcView software.</td> </tr> </tbody> </table> <p>Proceed with "Stage 2: Opening the Project File".</p>	Step	Action	1	Click <b>Start</b> .	2	Select <b>Programs</b> .	3	Select <b>ESRI</b> . The ArcView GIS 3.2 (or 3.3) menu option appears.	4	Select <b>ArcView GIS 3.2</b> (or <b>3.3</b> ). The ArcView menu folder opens.	5	Select <b>ArcView GIS 3.2</b> (or <b>3.3</b> ). This opens the ArcView software.
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The ArcView icon,	ArcView opens. Note that the <b>Welcome to ArcView GIS</b> window may appear if this is your first session of ArcView or you have not chose to turn off the welcome window. Proceed with "Stage 2: Opening the Project File".												
the shortcut,	skip the rest of this process and proceed to "Stage 3: Starting AV-SAVER".												

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**Stage 2:  
Opening the  
Project File**

There is a project file that is included with the SAVER system on the AV-SAVER disk. Complete the following actions to open the AV-SAVER project:

Step	Action
1	Click on the <b>File</b> menu option. A menu window appears.
2	Select <b>Open Project...</b> The <b>Open Project</b> dialog box appears.
3	Double-click on the <b>c:\</b> drive.
4	Double-click on the <b>_saver</b> folder.
5	<p>Select the newest SAVER project file, as shown in the graphic below. The SAVER project files use the following naming standard:</p> <p><i>_saver_encrypted_yyyymmdd.apr</i></p> 
6	<p>Press <b>OK</b>. The basic ArcView window changes, displaying the SAVER options. The program initially performs some internal processing and data organizing routines. This will cause a brief delay before SAVER is accessible.</p> <p><b>NOTE:</b> The screen may be improperly sized for your screen. If this is the case, maximize the screen. You may wish to save the project file once you maximize the screen.</p>

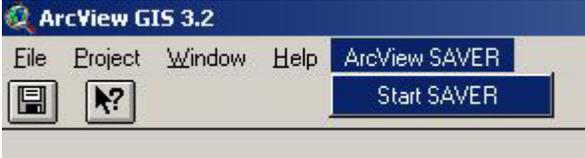
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**Stage 3:  
Starting AV-  
SAVER**

Complete the following actions to start AV-SAVER:

Step	Action
1	Select <b>ArcView SAVER</b> from the Windows menu options.
2	Select <b>Start SAVER</b> , as shown in the graphic to the left. The <b>AV-SAVER Introduction</b> window appears for ten seconds and the <b>About Iowa's AV-SAVER for 5Es</b> window. The <b>AV-SAVER Introduction</b> will disappear after 10 seconds if you do not chose to close it. 
3	Press <b>Continue</b> on the <b>About Iowa's AV-SAVER for 5Es</b> window. The SAVER program opens.

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## The SAVER Dialog Windows

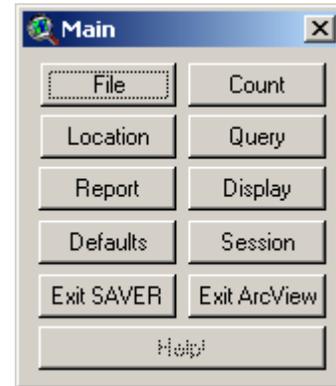
**The SAVER Dialog Boxes** There are two dialog windows that are critical for the use of SAVER. They are the **Main** dialog window and the **Answers** dialog window.

### The Main Dialog

The **Main** dialog window is one of two windows critical for successfully using AV-SAVER. It is the starting point for all SAVER operations.

Buttons on this window will be either active or inactive, depending upon the task you are currently performing within SAVER or what windows you currently have opened.

Advanced users may recognize similarities with ArcView menu options. However, it is recommended that only the SAVER dialog boxes are used while working within the SAVER system.



Option	Description
<b>File</b>	This option is used to open and save maps, tables, and projects.
<b>Count</b>	This option performs a simple count of selected features (typically crash activity) within a specified map region.
<b>Location</b>	This option currently only allows for a count operation, as described above. It is being expanded.
<b>Query</b>	This option allows you to create a wide range of queries.
<b>Report</b>	This option generates a variety of reports.
<b>Display</b>	This option activates or deactivates themes on the map. It is used for map display manipulation.
<b>Defaults</b>	This option sets option defaults.
<b>Session</b>	This option sets default options for the current session only.
<b>Exit SAVER</b>	This option closes SAVER.
<b>Exit ArcView</b>	This option closes both SAVER and ArcView.

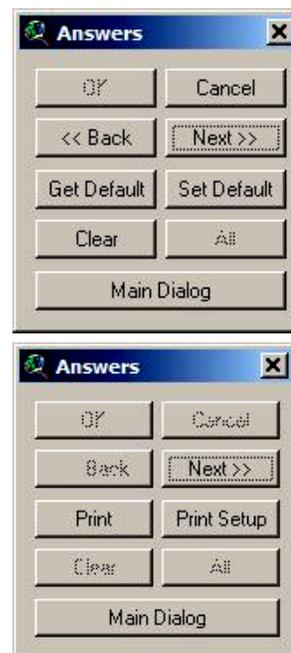
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**The Answers Dialog**

The **Answers** dialog window is one of two windows critical for successfully using AV-SAVER. It allows you to progress through the variety of SAVER functions as well as to acquire results from SAVER functions.

The **Answers** dialog has one of two forms, depending on operations you are performing within the SAVER application at the time. The top figure to the right represents the standard default **Answers** dialog window. The bottom figure represents the **Answers** dialog that allows for printing of report windows.

**NOTE:** Many SAVER functions may cause the **Main** dialog window to disappear. You may always press the **Main Dialog** button on the **Answers** dialog window to bring it back.



Button	Description
<b>OK</b>	This button is used at certain times to complete a process (such as setting session defaults).
<b>Cancel</b>	This button cancels the current operation or cancels the dialog.
<b>&lt;&lt;Back</b>	This button closes the current parameter selection window and returns the user to the previous selection window.
<b>Next&gt;&gt;</b>	This button is critical. It tells SAVER to move on to the next step of a procedure or parameter selection process.
<b>Get Default</b>	This option populates the <b>Defaults</b> window fields with the established defaults.
<b>Set Default</b>	This option saves the information within the <b>Default</b> window. You use this button to set defaults whether you are making system or session defaults.
<b>Clear</b>	This button clears all choices from a currently-displayed parameter selection window.
<b>All</b>	This button selects all choices within a currently-displayed parameter selection window.
<b>Main Dialog</b>	This button will always cancel all operations and cause the <b>Main</b> dialog window to appear.
<b>Print</b>	This button sends prints the desired report or window.
<b>Print Setup</b>	This button opens the Windows <b>Print Setup</b> window.

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Defaults Window

**The User Defaults**

User defaults include information about the user and his or her preferences that is stored by SAVER. This information includes details about the user and agency-related details. The other default, font print size, controls the size of the printed text. This information is included in the reports generated by SAVER.

There are two categories of defaults. Refer to the table below:

Type of Default	Description
System Default	The system default is set once. This information will automatically be used whenever reports are generated.
Session Default	The session default can be set for the current SAVER session. This value is used when reports are generated for that session of SAVER. <b>NOTE:</b> You would only use a session default if you needed to change name, address, or some other default information for a particular report.

**System Defaults**

At this time, there are three kinds of system defaults available. The purpose of these defaults are to identify who generated the report and why.



The **Defaults** window is shown at the right. The available options are described below.

Option	Description
Print Font Size	Setting this default allows the user to select either a small, medium, or large font size for reports. This is governed mainly by screen resolution. Smaller resolutions, for example, work well with "small".
Analyst Information	This default includes the name of the analyst as well as his or her title.
Agency Information	This default includes the name, office, and address of the analyst's agency.

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**Analyst Information**

The following procedure describes setting the analyst information. The procedure is the same for setting both system defaults and session defaults, except that the final step is to click the **OK** button, not the **Set Default** button.

Step	Action
1	Click the <b>Defaults</b> button on the <b>Main</b> dialog window. The <b>Defaults</b> window appears.
2	Click the <b>Analyst Info</b> button on the <b>Defaults</b> window. The <b>Analyst Information</b> window appears.
3	Complete the "Analyst name" field.
4	Complete the "Analyst title" field.
5	Click the <b>Set Default</b> button on the <b>Answers</b> dialog window (or the <b>OK</b> button if you are setting session defaults). The <b>Analyst Information</b> window disappears.

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**Agency Information**

The following procedure describes setting the agency information. The procedure is the same for setting both system defaults and session defaults.

Step	Action
1	Click the <b>Defaults</b> button on the <b>Main</b> dialog window. The <b>Defaults</b> window appears.
2	Click <b>Agency Information</b> on the <b>Defaults</b> window. The <b>Agency Information</b> window appears.
3	Complete all of the fields.
4	Click the <b>Set Default</b> button on the <b>Answers</b> dialog window. The <b>Agency Information</b> window disappears.

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**Font Print Size**

The following procedure describes setting the font print size. This option is NOT enabled for an individual session at this time. Due to the inexact nature of the available print sizes (small, medium, and large) you may wish to print some test files to determine which option is best for your needs.

Step	Action
1	Click the <b>Defaults</b> button on the <b>Main</b> dialog box. The <b>Defaults</b> window appears.
2	Click the <b>Print Font Size</b> button on the <b>Defaults</b> window. The <b>Print Font Size</b> window appears.
3	Select one of the three size options.
4	Click the <b>Set Default</b> button on the <b>Answers</b> dialog box. The <b>Print Font Size</b> window disappears.

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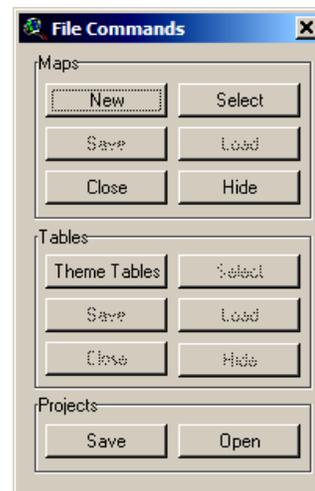
File Commands Window

**File Commands Menu**

The **File Commands** window has three separate control panels, as shown in the screen to the right. At this time it is primarily used to create new maps.

A user can use the **Theme Tables** button to access key field information and to look for crash case numbers. At this time, if you do not use the **Close** button in the Tables control panel to close the Theme Tables, then they remain “in memory”.

This window will also be the primary route to take to save and load maps, tables, and projects. This extra functionality is currently under construction.



Button	Description
<b>New</b>	(Maps) This button creates a new map.
<b>Select</b>	(Maps) This button causes all available view to appear in a list, from which you can select a view and open it.
<b>Save</b>	(Maps) This button is not active at this time.
<b>Load</b>	(Maps) This button is not active at this time.
<b>Close</b>	(Maps) This button causes the map to completely close. If you have not saved it, it will no longer be retrievable.
<b>Hide/Show</b>	(Maps) This button causes the currently active map window to either disappear or appear. The map is also available from the <b>Select</b> button option.
<b>Theme Tables</b>	(Tables) This button opens the theme tables, which show the attribute values of the themes.
<b>Select</b>	(Tables) This button is not active at this time.
<b>Save</b>	(Tables) This button allows you to save a selected theme table.
<b>Close</b>	(Tables) This button closes a selected theme table.
<b>Hide/Show</b>	(Tables) This button causes the theme table window to either disappear or appear.
<b>Save</b>	(Projects) This button is not active at this time.
<b>Open</b>	(Projects) This button is not active at this time.

## Location Specification Window

**Location Specification** This window is under construction. However, you may use the **Count** button to initiate the count routine.

The Selection control panel options will allow you to access and work with some of the specific features that define a map. These options are not available at this time.

The Location control panel options are not active at this time.



Button	Description
<b>Count</b>	This button activates the count routine for a selected map region, as long as at least one theme has been activated. It is

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The Display Window

**Display Window Description**

This window focuses on manipulating the map and associated themes. It allows you to activate crash data, make stacks, create labels for items on the map, and perform some basic ArcView map utilities (such as zooming).

If you wish to modify stack colors or appearance, refer to “Changing Stack Color” in chapter 4.



Button	Description
<b>Crash Data</b>	This button allows you to activate and/or show some or all of the available crash data themes within a given map by year.
<b>All Data</b>	This button allows you to activate some or all of the themes available within a given map.
<b>Create</b>	This button allows you to initiate the stack creation routine.
<b>Remove</b>	This button removes any stacks you have created on the map.
<b>Export</b>	This option is not yet functional.
<b>Run</b>	This option is not yet functional.
<b>Save</b>	This option is not yet functional.
<b>Load</b>	This option is not yet functional.
<b>Label</b>	This button allows you to show street, city, and highway names on the map.
<b>Remove</b>	This button removes any street, city, and highway labels on the active map.
<b>Zoom In</b>	This button activates the Zoom In feature at 200%.
<b>Zoom Out</b>	This button activates the Zoom Out feature at 200%.
<b>Export</b>	This button allows you to export the current view as a graphic file which could be edited in a graphics software package or placed directly in files within such software as MicroSoft Word, PowerPoint, and Excel.
<b>Add Theme</b>	This button allows you to import and add an ArcView theme to your project.
<b>Rename Map</b>	This option is not yet functional.
<b>Refresh</b>	This option is not yet functional.

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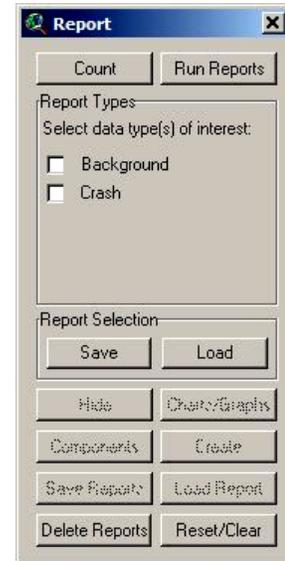
**Report Window**

**The Report Window**

This window allows you to perform counts as well as to create and run reports.

You must have created a report selection set before you can run one. A report selection set is a collection of user-selected options used to create a report from a given set of data. This allows you to define a desired kind of report once and run it at a later time or against different data.

The Report Types control panel prompts you to choose whether to run a report selection set against crash data or background data.



Button	Description
<b>Count</b>	This button activates the count routine for a selected map region, as long as at least one theme has been activated.
<b>Run Reports</b>	This button will run a report, as long as one has been defined and loaded.
<b>Save</b>	(Report Selection) This button allows you to save a set of report selection set.
<b>Load</b>	(Report Selection) This button allows you to load a saved report selection set.
<b>Show/Hide</b>	The <b>Show</b> button allows you to view generated reports while the <b>Hide</b> button will remove them from the screen.
<b>Save Reports</b>	This button will allow you to save individual reports.
<b>Delete Reports</b>	This button will allow you to delete selected reports.
<b>Reset/Clear</b>	This button clears all choices from whatever parameter selection process you are performing.

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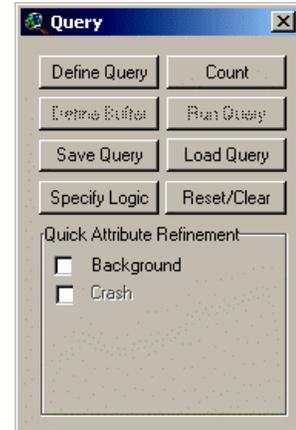
## Query Window

### The Query Window

This window is primarily used to create and run queries against the selected available data.

The Quick Attribute Refinement control panel can be used to specify whether the query runs against crash themes or background themes.

If you often need to perform the same query process, it is strongly recommended that you save your query. Please select a recognizable name for your query if you do so.



Button	Description
<b>Define Query</b>	This button is used to begin selecting the variety of query parameters.
<b>Count</b>	This button activates the count routine for a selected map region, as long as at least one theme has been activated.
<b>Save Query</b>	This button is used to save a query, if desired.
<b>Load Query</b>	This button is used to load a saved query.
<b>Specify Logic</b>	This button is used to select the form of Boolean logic to be used by the query.
<b>Reset/Clear</b>	This button clears all choices from whatever parameter selection process you are performing.